

Platform scale with stainless steel display device KERN SFE



Platform scale with dust and spray protection IP65 and EC type approval [M]

**Features**

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1** Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Display device: Stainless steel, protection against dust and water splashes IP65, flexible positioning, e.g. free-standing or mounted to the wall, for details see KERN KFE-TM
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels, (only for non-verified models)

**Technical data**

- Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A** 300×240×110 mm, see larger picture
  - B** 400×300×130 mm
  - C** 500×400×140 mm
  - D** 650×500×140 mm
- Dimensions of display device W×D×H 195×120×70 mm
- Cable length of display device approx. 3 m
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- Stand to elevate display device, for models with weighing plate size
  - A-D**: Height of stand approx. 200 mm, Type **2**, KERN SFE-A01
  - B-D**: Height of stand approx. 400 mm, Type **2**, KERN SFE-A02
  - C-D**: Height of stand approx. 600 mm, Type **3**, KERN SFE-A03
- Tare pan made from stainless steel. Ideal for weighing loose small parts, fruit, vegetables, etc., KERN RFS-A02

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Option			
							Verification		DAkkS Calibr. Certificate	
							MID	KERN	DAkkS	KERN
<b>SFE 6K-3NM</b>	6	2	2	40	6	A	965-228		963-128	
<b>SFE 10K-3NM</b>	15	5	5	100	6	A	965-228		963-128	
<b>SFE 10K-3LNM</b>	15	5	5	100	8	B	965-228		963-128	
<b>SFE 30K-2NM</b>	30	10	10	200	6	A	965-228		963-128	
<b>SFE 60K-2NM</b>	60	20	20	400	8	B	965-229		963-129	
<b>SFE 60K-2LNM</b>	60	20	20	400	12	C	965-229		963-129	
<b>SFE 100K-2NM</b>	150	50	50	1000	8	B	965-229		963-129	
<b>SFE 100K-2LNM</b>	150	50	50	1000	12	C	965-229		963-129	
<b>SFE 100K-2XLNM</b>	150	50	50	1000	20	D	965-229		963-129	
<b>SFE 300K-1LNM</b>	300	100	100	2000	20	D	965-229		963-129	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**Pictograms**

<p><b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p>	<p><b>KERN Communication Protocol (KCP):</b> It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems</p>	<p><b>Suspended weighing:</b> Load support with hook on the underside of the balance</p>
<p><b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required</p>	<p><b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p>	<p><b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device</p>
<p><b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone.</p>	<p><b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers</p>	<p><b>Rechargeable battery pack:</b> Rechargeable set</p>
<p><b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p>	<p><b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers</p>	<p><b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS</p>
<p><b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard</p>	<p><b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight</p>	<p><b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p>
<p><b>Data interface RS-232:</b> To connect the balance to a printer, PC or network</p>	<p><b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out</p>	<p><b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p>
<p><b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible</p>	<p><b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p>	<p><b>Weighing principle: Strain gauges:</b> Electrical resistor on an elastic deforming body</p>
<p><b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals</p>	<p><b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out</p>	<p><b>Weighing principle: Tuning fork:</b> A resonating body is electromagnetically excited, causing it to oscillate</p>
<p><b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals</p>	<p><b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)</p>	<p><b>Weighing principle: Electromagnetic force compensation:</b> Coil inside a permanent magnet. For the most accurate weighings</p>
<p><b>WiFi data interface:</b> To transfer data from the balance to a printer, PC or other peripherals</p>	<p><b>Weighing units:</b> Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details</p>	<p><b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision</p>
<p><b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.</p>	<p><b>Weighing with tolerance range:</b> (Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model</p>	<p><b>Verification possible:</b> The time required for verification is specified in the pictogram</p>
<p><b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements</p>	<p><b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p>	<p><b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram</p>
<p><b>Interface for second balance:</b> For direct connection of a second balance</p>	<p><b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram</p>	<p><b>Factory calibration (ISO):</b> The time required for Factory calibration is shown in days in the pictogram</p>
<p><b>Network interface:</b> For connecting the scale to an Ethernet network</p>		<p><b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram</p>
		<p><b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram</p>

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**KERN – Precision is our business**

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

**Range of services:**

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

**Your KERN specialist dealer:**